

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1. Product identifier

**Product name:** TPE Granulate

### 2. Relevant identified uses of the substance or mixture and uses advised against

**General use:** Electrical and electronics industry

### 3. Details of the supplier of the safety data sheet:

**Supplier:** Laboratorio Geométrico S.L.  
Calle Segunda (Polígono Industrial El Montalvo III), 4,  
37188, Carbajosa de la Sagrada  
info@winkle.shop  
670 37 88 29

### 4. Emergency telephone number

**Emergency telephone numbers :** 112

## 2. HAZARDS IDENTIFICATION

### 1. Classification of the substance or mixture

**Classification according to Regulation (EC) No. 1272/2008:**

It is not a dangerous substance or mixture according to Regulation (EC) No. 1272/2008

### 2. Label elements

**Labeling in accordance with Regulation (EC) No 1272/2008 (CLP):**

It is not a dangerous substance or mixture according to Regulation (EC) No. 1272/2008

### 3. Other hazards

No information available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 1. Chemical nature:

Thermoplastic elastomers

### 2. Mixtures

This product is a mix. This product does not contain, in concentrations equal to or higher than those established by Regulation (EC) No. 2015/830, any substance dangerous to health or the environment or any substance for which there are Community exposure limits in the workplace

## 4. FIRST AID MEASURES

### 1. Description of first aid measures

#### General recommendations

First responders should pay attention to their own protection and wear recommended personal protection (chemical resistant gloves, splash protection). See Section 8 for specific personal protective equipment in case there is a possibility of exposure.

#### Inhalation

Move the affected person to fresh air. If effects occur, consult a doctor

#### Skin contact

If necessary, seek first aid or medical attention. If the molten material comes into contact with the skin, do not apply ice, but cool with ice water or a large jet of water. DO NOT try to remove the molten material from your skin. This could cause serious damage to the fabric. Get immediate medical attention. A suitable safety and emergency shower should be available immediately.

#### Eye contact

Rinse your eyes with water for several minutes. Remove contact lenses after 1 to 2 minutes and continue washing your eyes for several more minutes. If side effects develop, contact a doctor, preferably an ophthalmologist

#### Ingestion

If swallowed, seek medical attention. May cause gastrointestinal obstruction. Laxatives should not be administered. Vomiting should not be induced unless authorized to do so by medical personnel.

### 2. Most important symptoms and effects, both acute and delayed

In addition to the detailed information in the sections Description of first aid measures (above) and Indication of any medical attention and special treatments that must be given immediately (below); Section 11: Toxicological Information includes description of some additional symptoms and effects.

### 3. Indication of any immediate medical attention and special treatment needed

**Notes to Physician:** If burns are present, treat as thermal burns after decontamination. If a stomach lavage is carried out, an endotracheal and / or esophageal control is recommended. The risk of pulmonary aspiration will be assessed in relation to toxicity. There is no specific antidote. Treatment of exposure will be directed at the control of symptoms and the clinical conditions of the patient.

## 5. FIREFIGHTING MEASURES

### 1. Extinguishing media

**Suitable extinguishing media:** Water spray Alcohol resistant foam Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

**Unsuitable extinguishing media:** None known

### 2. Special hazards arising from the substance or mixture

**Hazardous combustion products:** Carbon oxides

**Unusual Fire and Explosion Hazards:** Exposure to combustion products can be a health hazard

### 3. Recommendations for firefighters

**Fire fighting procedures:** Extinguishing water must be collected separately, it must not enter the sewer. Contain the expansion of the extinguishing water if possible. May cause environmental damage if not contained.

Use extinguishing measures that are appropriate to the circumstances of the premises and its surroundings. Water spray can be used to cool closed containers. Extinguishing water must be collected separately, it must not enter the sewer. Move non-hazardous containers out of fire area if it can be done safely. Evacuate the area.

**Special protective equipment for firefighters:** If necessary, wear self-contained breathing apparatus for firefighting. Wear personal protective equipment.

## 6. ACCIDENTAL RELEASE MEASURES

### 1. Personal precautions, protective equipment and emergency procedures

Follow personal protective equipment recommendations and safe handling advice

### 2. Environmental precautions

Do not pour the product into the aquatic environment if it exceeds the defined regulatory levels. Prevent further leaks or spills if it can be done without risk. Retain and eliminate contaminated water. Local authorities must be informed if major spills cannot be contained

### 3. Methods and materials for containment and cleaning up

Pick up or vacuum up spill and place in suitable container for disposal. Local or national regulations may apply to the release and disposal of this material, and to materials and items used to clean up leaks. You will need to determine what the applicable regulations are. Sections 13 and 15 of this safety data sheet provide information on certain local or national requirements.

### 4. Reference to other sections

See sections: 7, 8, 11, 12 and 13

## 7. HANDLING AND STORAGE

### 1. Precautions for Safe Handling

Take care to avoid spills and residues and to minimize release to the environment. Handle with adequate industrial hygiene precautions, and respect safety practices.

Use only with good ventilation. See Engineering measures in the EXPOSURE CONTROLS / PERSONAL PROTECTION section

### 2. Conditions for safe storage, including any incompatibilities

Store in properly labeled containers. Store in accordance with particular national regulations. Do not store with the following types of products: Strong oxidizing agents. Unsuitable materials for containers: None known

### 3. Specific end uses

See the technical information sheet of this product for more information

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 1. Control parameters

If there are exposure limits, they will be listed below. If no exposure limits are displayed, no value will be applied

### 2. Exposure controls

**Engineering controls:** Use local exhaust ventilation, or other engineering controls to keep ambient levels below required exposure limits or guidelines. In the event that there are no applicable required exposure limits or guidelines, general ventilation should be sufficient for most operations. Local ventilation may be required in some operations

### 3. Individual protection measures

**Eye / face protection:** Wear safety glasses (with side shields). Safety glasses (with side shields) should be in accordance with EN 166 or equivalent. If there is a possibility that exposure to the particulate matter could cause discomfort to the eyes, wear motorcycle goggles. Chemical protective glasses (motorcycle type or "goggles") must comply with the EN 166 standard or equivalent. If exposure causes eye discomfort, use a full face respirator (according to EN 136) with an organic vapor cartridge (according to EN 14387)

**Skin/hand protection:** Chemical protective gloves should not be necessary for handling this product. Skin contact should be minimal in accordance with general hygiene practices for this product. Wear gloves to protect against mechanical injury. Glove selection will depend on the job. Wear insulating gloves for thermal protection (EN 407), when necessary

**Other protection:** No special precautions are necessary, other than wearing clean clothing that covers the entire body

**Respiratory protection:** Respiratory protection should be used when the potential exists for exceeding the required or guideline exposure limits. In the event that there are no applicable guidelines or required exposure limit values, use respiratory protection when adverse effects, such as respiratory irritation or discomfort, have been manifested, or when indicated by the risk assessment process.

Wear an approved air-purifying respirator when fumes are generated at high temperatures or when dust or mist is present.

Use the following CE approved air purifying respirator: In the presence of dust / mist use a Particulate Filter, type P2 (complying with EN 143). In the presence of vapors, acids, or dusts / mists, use a Cartridge for organic vapors with a particulate pre-filter, type AP2 (complying with the EN 14387 standard).

### 4. Environmental exposure controls

See SECTION 7 (Handling and storage) and SECTION 13 (Disposal considerations) for measures to avoid excessive environmental exposure during use and waste disposal.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Thermoplastic tablet
<b>Color:</b>	Colorless
<b>Odor:</b>	Characteristic

<b>Odor threshold:</b>	No data available
<b>pH:</b>	Not applicable
<b>Melting point/range:</b>	No data available
<b>Freezing point:</b>	No data available
<b>Boiling point (760 mmHg):</b>	Not applicable
<b>Flashpoint:</b>	Not applicable
<b>Evaporation rate (Butyl Acetate=1):</b>	Not applicable
<b>Flammability (solid,gas):</b>	Not classified as a flammability hazard
<b>Lower explosive limits:</b>	No data available
<b>Upper explosive limits:</b>	No data available
<b>Vapor pressure:</b>	Not applicable
<b>Relative vapor density (air=1):</b>	No data available
<b>Relative density (water=1):</b>	0.87
<b>Water solubility:</b>	No data available
<b>Partition coefficient n-octanol/water:</b>	No data available
<b>Auto-ignition temperature:</b>	No data available
<b>Decomposition temperature:</b>	No data available
<b>Dynamic viscosity:</b>	Not applicable
<b>Kinematic viscosity:</b>	Not applicable
<b>Explosive properties:</b>	Not explosive
<b>Oxidizing properties:</b>	The substance or mixture is not classified as an oxidant
<b>Molecular weight:</b>	No data available
<b>Particle size:</b>	No data available

NOTE: The physical and chemical data given in Section 9 are typical values for the product, not constituting a specification.

## 10. STABILITY AND REACTIVITY

### 1. Reactivity

Not classified as a reactivity hazard

### 2. Chemical stability

Stable under normal conditions

### 3. Possibility of hazardous reactions

May react with strong oxidizing agents

### 4. Conditions to avoid

Do not expose to temperatures above 560°F / 293°C. Such exposure could cause decomposition or burns

### 5. Incompatible materials

Oxidizer

### 6. Hazardous decomposition products

Ethane. Ethylene. propene. 1-Butene. Hexene

## 11. TOXICOLOGICAL INFORMATION

### 1. Information on the likely routes of exposure

#### Acute toxicity

Acute oral toxicity: Very low oral toxicity. Harmful effects are not expected from ingestion of small amounts. May cause an obstruction if swallowed As a product. The LD50 for ingestion of a single oral dose has not been determined.

LD50,> 5,000 mg / kg Estimated

Acute dermal toxicity: No harmful effects are expected from absorption through the skin. As a product. The dermal LD50 has not been determined.

LD50,> 2,000 mg / kg Estimated

Acute inhalation toxicity: A single exposure to dust is not likely to cause adverse effects. Vapors released during thermal processing can cause respiratory irritation. The LC50 has not been determined

#### Skin corrosion or irritation

Prolonged contact does not cause skin irritation. Mechanical injury only. Under normal process conditions, the material heats up to elevated temperatures; contact with the material can cause burns

#### Serious eye damage / irritation

Both the solid and the powder of the product can cause irritation or injury to the cornea, due to mechanical action. Elevated temperatures can generate vapors in concentrations sufficient to cause eye irritation. The effects can include discomfort and redness

#### Sensitization for skin sensitization:

No relevant data was found

#### For respiratory sensitization:

No relevant data was found

#### Specific Target Organ Systemic Toxicity (Single Exposure):

Evaluation of the available data indicates that this material is not toxic to STOT-SE (Specific Organ Toxicity - Single Exposure).

#### Specific Target Organ Systemic Toxicity (Repeated Exposure):

The additives are encapsulated in the product and are not expected to be released under normal processing conditions or in foreseeable emergencies

#### Carcinogenicity:

No relevant data found

#### Teratogenicity:

No relevant data found

#### Reproductive toxicity:

No relevant data found

**Mutagenicity:**

No relevant data found

**Aspiration Hazard:**

Based on physical properties, aspiration hazard is unlikely

**12. ECOLOGICAL INFORMATION****1. Toxicity**

Not data available

**2. Persistence and degradability**

Not data available

**3. Bioaccumulative potential**

Not data available

**4. Mobility in soil**

Not data available

**5. Results of PBT and vPvB assessment**

Not data available

**6. Other adverse effects**

Not data available

**13. DISPOSAL CONSIDERATIONS****1. Disposal methods**

Do not send to any drain, neither to the ground nor to any stream of water. For proper disposal, unused and uncontaminated products must be treated as hazardous waste according to European Directive 2008/98 / EC. Waste disposal practices must comply with national and provincial legislation and municipal or local regulations on hazardous waste. For the disposal of used, contaminated products and other residual materials, additional evaluations may be necessary.

Both the waste group of the European Waste Catalog in which this product must be framed and the corresponding code will depend on the use made of it. Contact waste disposal services

**14. TRANSPORT INFORMATION****Classification for ROAD and RAIL transport (ADR / RID):****1. UN number**

Not applicable

**2. UN proper shipping name**

Not regulated transport

**3. Transport hazard class (es)**

Not applicable

**4. Packing group**

Not applicable

**5. Hazards to the environment**

Not considered dangerous for the environment based on available data

**6. Special precautions for users**

No data available

**Classification for SEA transport (IMO / IMDG)****1. UN number**

Not applicable

**2. UN proper shipping name**

Not regulated transport

**3. Transport hazard class (es)**

Not applicable

**4. Packing group**

Not applicable

**5. Hazards to the environment**

It is not considered a marine pollutant based on available data

**6. Special precautions for users**

No data available

**7. Transport in bulk in accordance with Annex I or II of the MARPOL 73/78 Convention and the CIQ and CIG codes**

Consult IMO regulations before transporting ocean bulk

**Classification for AIR transport (IATA / ICAO)****1. UN number**

Not applicable

**2. UN proper shipping name**

Not regulated transport

**3. Transport hazard class (es)**

Not applicable

**4. Packing group**

Not applicable

**5. Hazards to the environment**

Not applicable

**6. Special precautions for users**

No data available

## 15. REGULATORY INFORMATION

### 1. Safety, health and environmental regulations and legislation specific for the substance or mixture

#### **REACH Regulation (CE) No. 1907/2006**

This product only contains compounds that are on the list of pre-registered, registered or exempt substances from registration or are already considered registered in accordance with Regulation (EC) No. 1907/2006 (REACH). The above statements on the status of the registration of The substance is provided in good faith and is assumed to be accurate, as is the effective date shown above. However, no warranty is offered, either express or implied. It is the buyer / consumer's obligation to ensure that they correctly understand the regulatory status of the product

#### **Seveso III: Directive 2012/18 / EU of the European Parliament and of the Council on the control of the risks inherent in serious accidents involving dangerous substances**

Listed in the Regulation: Not applicable

### 2. Chemical safety assessment

Not applicable

## 16. OTHER INFORMATION

### Classification and procedure used to obtain the classification of mixtures according

#### **Regulation (EC) No. 1272/2008**

This product is not classified as dangerous according to CE criteria

#### **Revision**

Identification Number: 4098226 / A802 / Date: 12.10.2018 / Version: 2.0

The most recent revisions are marked with a double bar and bold in the left margin of the document

#### **Full text of other abbreviations**

ADN - European Agreement on the International Transport of Dangerous Goods by Inland Waterways; ADR - European Agreement on the International Transport of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for Materials Testing; bw - Body weight; CLP - Regulations on Classification, Labeling and Packaging; Regulation (EC) No 1272/2008; CMR - Carcinogenic, mutagenic or toxic to reproduction; DIN - Standard of the German Institute for Standardization; DSL - National Substances List (Canada); ECHA - European Chemical Substances Agency; EC-Number - Number of the European Community; ECx - Concentration associated with response x%; ELx - Loading rate associated with response x%; EmS - Emergency procedure; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with growth rate response x%; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the construction and equipment of Ships that transport dangerous chemicals in bulk; IC50 - Mean maximum inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Chemical Substances in China; IMDG - International Maritime Dangerous Goods Code; IMO - International Maritime Organization; ISHL - Industrial Safety and Hygiene Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemical Inventory; LC50 - Lethal Concentration for 50% of a Test Population; LD50 - Lethal Dose for 50% of a Test Population (Median Lethal Dose); MARPOL - International Convention for the

Prevention of Pollution at Sea by Ships; us. - N.E.P. : Not elsewhere specified; NO (A) EC - Unobservable ion; PBT - Persistent, bioaccumulative and toxic substance; PICCS - Philippine Inventory of Chemicals and Chemical Substances; (Q) SAR - Structure-activity relationship (quantitative); REACH - Regulation (EC) No 1907/2006 of the European Parliament and Council regarding the registration, evaluation, authorization and restriction of chemicals; RID - regulations relating to the international transport of dangerous goods by rail; SADT - Self Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substances Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very persistent and very bioaccumulative

**Information sources and references**

The department for product regulation (Product Regulatory Services) and the risk communication department (Hazard Communications) prepare the SDS with the information extracted from internal company references.